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# Bibframe Update: Metadata Distribution from ID.LOC.GOV



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# ID.LOC.GOV – LC Linked Data Service

What is it?

It is a data service.

It makes LC cataloging data available as data.


In RDF (Resource Description Format)

It serves other libraries and librarians.

What is it not?

It is not an OPAC (Online Public Access Catalog).


It is not designed for typical library  
patrons (researchers, etc.)


LIBRARY OF CONGRESS

ASK A LIBRARIAN
DIGITAL COLLECTIONS
LIBRARY CATALOGS
GO Options


The Library of Congress > Authorities & Vocabularies

AUTHORITIES & VOCABULARIES



- Authorities & Vocabularies
- About
- Vocabulary Descriptions
- Search
- Download
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- Contact Us

## Authorities and Vocabularies



### Search Authorities & Vocabularies

Hold CONTROL key for 2 or more

All
LC Subject Headings
LC Name Authority File
LC Children's Subject Headings

Search

### Available Authorities & Vocabularies

The Authorities and Vocabularies service provides access to commonly found standards and vocabularies promulgated by the Library of Congress. This includes data values and the controlled vocabularies that house them. The following are currently offered as part of this service:

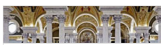
> <a href="#">LC Subject Headings</a>	> <a href="#">MARC Relators</a>
> <a href="#">LC Name Authority File</a>	> <a href="#">MARC Countries</a>
> <a href="#">LC Children's Subject Headings</a>	> <a href="#">MARC Geographic Areas</a>
> <a href="#">LC Genre/Form Terms</a>	> <a href="#">MARC Languages</a>
> <a href="#">Thesaurus for Graphic Materials</a>	> <a href="#">ISO639-1 Languages</a>
	> <a href="#">ISO639-2 Languages</a>
	> <a href="#">ISO639-5 Languages</a>

### Preservation Vocabularies

- > [Preservation Events](#)
- > [Preservation Level Role](#)
- > [Cryptographic Hash Functions](#)

## Authorities and Vocabulary

## ID.LOC.GOV



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- [Privacy Policy](#)

## ID.LOC.GOV - Linked Data Service

ID.LOC.GOV provides both interactive and machine access to commonly used ontologies, controlled vocabularies, and other lists for bibliographic description. To search everything, use the search box below. Or, select from the list below to learn more and search only in that vocabulary.

Search id.loc.gov GO

## BIBFRAME

- BIBFRAME Works
- BIBFRAME Instances

### Subjects, Thesauri, Classification

- LC Subject Headings (LCSH)
- LC Classification (LCC)
- LC Children's Subject Headings
- LC Medium of Performance Thesaurus for Music (LCMPT)
- Thesaurus for Graphic Materials (TGM)
- AFS Ethnographic Thesaurus
- Subject Schemes
- Classification Schemes

## Agents

- LC Name Authority File (LCNAF)
- Cultural Heritage Organizations

## Genre

- LC Genre/Form Terms (LCGFT)
- MARC Genre Terms
- Genre/Form Schemes

## Languages

- MARC Languages
- ISO639-1 Languages
- ISO639-2 Languages
- ISO639-5 Languages

### Geographic

- MARC Countries
- MARC Geographic Areas (GAC)

## Cataloging

- [Aspect Ratio](#)
- [Authentication Action](#)
- [Broadcast Standard](#)
- [Carriers](#)
- [Color Content](#)
- [Content Types](#)
- [Description Conventions](#)
- [Sound Capture and Storage](#)
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- [Generation](#)
- [Government Publication Type](#)
- [Groove Width/Pitch/Cutting](#)
- [Illustrative Content](#)
- [Intended Audience](#)
- [Issueance](#)
- [Layout](#)
- [LC Demographic Group Terms \(LCDGT\)](#)
- [Media Types](#)
- [Music Notation](#)
- [Notated Music Form](#)
- [Note Type](#)
- [Playback](#)
- [Playing Speed](#)
- [Polarity](#)
- [Presentation Format](#)
- [Production Method](#)
- [Projection](#)
- [Publication Frequencies](#)
- [Recording Medium](#)
- [Recording Type](#)
- [Reduction Ratio](#)
- [Regional Encoding](#)
- [Relators](#)
- [Relief](#)
- [Resource Components](#)
- [Scale](#)
- [Script](#)
- [Serial Publication Type](#)
- [Serial Content](#)
- [Special Playback Characteristics](#)
- [Status codes](#)
- [Supplementary Content](#)
- [Support Material](#)
- [Tactile Notation](#)
- [Tape Configuration](#)
- [Technique](#)
- [Video Format](#)

## Ontologies

- BIBFRAME Ontology
- MADS/RDF Ontology
- PREMIS Ontology

## Data Types

- Extended Date/Time Format (EDTF)

## Preservation Vocabularies

- Preservation Vocab(s) (all)
- Actions Granted
- Agent Type
- Event Outcome
- Preservation Level
- Content Location Type
- Copyright Status
- Cryptographic Hash Functions
- Environment Characteristic
- Environment Function Type
- Environment Purpose
- Environment Registry Role
- Event Related Agent Role
- Event Related Object Role
- Event Type
- Format Registry Role
- Hardware Type
- Inhibitor Target
- Inhibitor Type
- Linking Agent Role Event
- Linking Environment Role
- Object Category
- Preservation Level Role
- Relationship SubType
- Relationship Type
- Rights Basis
- Rights Related Agent Role
- Signature Encoding
- Signature Method
- Software Type
- Storage Medium

## Other

- Fingerprint Scheme Source Codes
- Language Code and Term Source Codes
- Musical Composition Form Code Source Codes
- Musical Instrumentation and Voice Code Source Codes
- Name and Title Authority Source Codes
- National Bibliography Number Source Codes
- Resource Types Scheme
- Standard Identifier Schemes

ID – 2012  
15 datasets

ID – 2022  
100+ datasets

Growth principally in support of  
Bibframe.

The Library of Congress > Linked Data Service

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Kevin Ford  
ALA Annual – Bibframe Update  
27 June 2022

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## Cataloging

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- Authentication Action
- Broadcast Standard
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- Color Content
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- Issuance
- Layout

“Cataloging” vocabularies tend to be small in size.


Basically lists of values.

Most used in today’s MARC cataloging, but have been supplemented.

# 2012

## Relatively few downloads, one for each dataset

**AUTHORITIES & VOCABULARIES**



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### Download

#### Bulk Downloads

Bulk downloads, serialized as RDF/XML, Turtle, or N-triples, are available for the authorities and vocabularies. These may be downloaded as compressed files (ZIP format), with the exception of the LC Name Authority File, which is GZipped. Unless otherwise noted, each download contains MADS/RDF and SKOS/RDF representations of the data.

[Read more](#)

Vocabulary/Authority	Date	Size	Download
LC Children's Subject Headings	11 Aug 2011	350 (kb)	<a href="#">nt</a>
LC Children's Subject Headings	11 Aug 2011	147 (kb)	<a href="#">rdxml</a>
LC Children's Subject Headings	11 Aug 2011	116 (kb)	<a href="#">ttl</a>
LC Genre/Form Terms	11 Aug 2011	493 (kb)	<a href="#">nt</a>
LC Genre/Form Terms	11 Aug 2011	279 (kb)	<a href="#">rdxml</a>
LC Genre/Form Terms	11 Aug 2011	232 (kb)	<a href="#">ttl</a>
LC Name Authority File (MADS/RDF only)	27 Feb 2012	2732860 (kb)	<a href="#">nt</a>
LC Name Authority File (SKOS/RDF only)	1 Mar 2012	793870 (kb)	<a href="#">nt</a>
LC Name Authority File (MADS/RDF only)	27 Feb 2012	2916602 (kb)	<a href="#">rdxml</a>
LC Name Authority File (SKOS/RDF only)	1 Mar 2012	853901 (kb)	<a href="#">rdxml</a>
LC Subject Headings (MADS/RDF only)	27 Feb 2012	157721 (kb)	<a href="#">nt</a>
LC Subject Headings (SKOS/RDF only)	1 Mar 2012	37701 (kb)	<a href="#">nt</a>
LC Subject Headings (MADS/RDF only)	27 Feb 2012	170053 (kb)	<a href="#">rdxml</a>
LC Subject Headings (SKOS/RDF only)	1 Mar 2012	41075 (kb)	<a href="#">rdxml</a>
MARC Countries	9 Aug 2011	112 (kb)	<a href="#">nt</a>

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# 2012

Small datasets – relatively easy to produce.

Large datasets – difficult, time-consuming to produce.

Example LCSH: ~415,000 resources

Took ~12 hours for MADS/RDF and SKOS/RDF

Names – with 11M resources – more than 25x the size!

Took basically a week.

All or nothing

Full bulk downloads only

No incrementals (weekly, daily, etc.)



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# 2016

Full download of LC bibliographic data as Bibframe.

Massive

Based on raw conversion

No relationships

Mostly blank nodes

Took at least a week or more to produce

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## 2018-2019

Revised generation for smaller datasets

Streamlined creation of bulk downloads for large datasets

Names

LCSH

Began grouping Cataloging vocabularies

**BUT** Different processes for different datasets

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# 2021

Contract to standardize bulk download creation  
Includes ability to produce incremental downloads

Implemented ActivityStreams  
Newer way to fetch information about data updates  
[ Had ATOM Feed since 2012; still supported ]

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# 2022-present

Put new bulk download code in place.

Produced new downloads for everything

**Except** BF Works and Instances

BF Hubs download provided

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## 2022-present

Implemented schedule for bulk downloads.

Names every three months

But weekly incrementals are created!

LCSH weekly

Takes 2 hours.

LCGFT, LCMPT, LCDGT weekly

Cataloging vocabularies every month

Datasets with infrequent updates

Every 3 or 6 months, depending

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# Present-Sept 2022

## BF Hubs

- Produce new bulk download
- Put on quarterly schedule
- Produce weekly incrementals

## BF Works, Instances

- Produce bulk downloads
- Put on quarterly schedule
- Produce weekly incrementals

Document schedule at [ID.LOC.GOV](https://id.loc.gov)

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# Questions?

Thank You

[kevinford@loc.gov](mailto:kevinford@loc.gov)